

GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF CONTRACT ADMINISTRATION  
SPONSORED PROJECT INITIATION

Date: April 8, 1980

Project Title: Machine-Made America: Technology and Democratic Ideals

Project No: G 43-619

Project Director: Dr. Melvin Kranzberg

Sponsor: National Endowment for the Humanities

Agreement Period: From 1-1-80 Until 9-30-80

Type Agreement: Grant No. FP-10018-80-0354

Amount: \$47,943 G-43-619 (originally thru GIT, but awarded to GTRI).  
1,310 GIT voluntary contribution G43-323  
\$49,253

Reports Required: several Financial Reports, participant selection, Final performance report.

Sponsor Contact Person (s):

<u>Technical Matters</u>	Ms. April Hall, Program Specialist Division of Fellowships 806 15th Street NW Room 310 Washington, DC 20506	<u>Contractual Matters</u> (thru OCA)
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Defense Priority Rating: N/A

Assigned to: Department of Social Sciences (School/~~Laboratory~~)

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GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF CONTRACT ADMINISTRATION  
SPONSORED PROJECT TERMINATION

Date: 8/21/81

Project Title: Machine-Made America: Technology and Democratic Ideals

Project No: G-43-619

Project Director: Dr. Melvin Kranzberg

Sponsor: National Endowment for the Humanities

Effective Termination Date: 9-30-80

Clearance of Accounting Charges: 12/31/80

Grant/Contract Closeout Actions Remaining:

NONE

- Final Invoice and Closing Documents
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other \_\_\_\_\_

Assigned to: Social Sciences (School/~~Department~~)

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FACE SHEET

NATIONAL ENDOWMENT FOR THE HUMANITIES

DIVISION OF FELLOWSHIPS AND STIPENDS

PERFORMANCE REPORT: NARRATIVE REPORT OF ACCOMPLISHMENT

INSTITUTION: Georgia Institute of Technology  
Atlanta, Georgia 30332

PROJECT DIRECTORS: Dr. Melvin Kranzberg (Director)  
Callaway Professor of the History of Technology  
  
Dr. August W. Giebelhaus (Associate Director)  
Associate Professor  
  
School of Social Sciences  
Georgia Institute of Technology  
Atlanta, Georgia 30332

PROJECT TITLE: "Machine-Made America: Technology and Democratic Ideals"

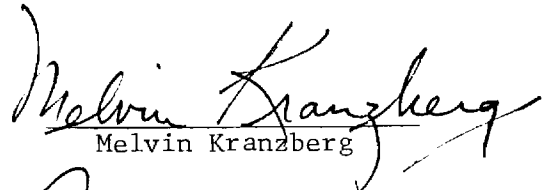
GRANT NUMBER: FP-10018-80-0354 (Georgia Tech Project No. G-43-619)

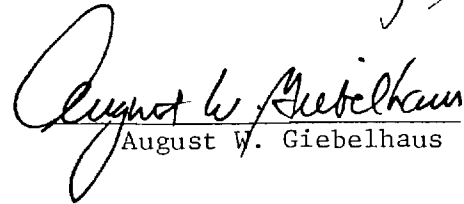
GRANT PERIOD: January 1, 1980 to September 30, 1980

AMOUNT OF GRANT: \$47,943.00

DATE OF REPORT: February 9, 1981

SIGNATURES OF DIRECTORS

  
Melvin Kranzberg

  
August W. Giebelhaus

## BACKGROUND:

During the summers of 1978 and 1979 Professors Kranzberg and Giebelhaus directed a month-long seminar for journalists at Georgia Tech on the subject of "Machine-Made America: Technology and Democratic Values." This program was part of the NEH Professions Seminar program in which business executives, journalists, labor leaders, lawyers, judges, physicians and health care professionals, public administrators, and school administrators are given the opportunity to get away from their daily grind to meet with other professionals for a period of intense study and reflection on college campuses across the United States. The Georgia Tech seminar proved to be a great success these first years and the Endowment office asked us to conduct the seminar for a third year, this time listing it as an "interprofessional" seminar rather than targeting it just for journalists. Thus, the program was advertised as being open to all of the above professional designations and fifty-three applications were received for the fifteen openings from a diverse group representing many occupational, geographical, age, and sex designations. The 1980 seminar was held on the Georgia Tech campus from June 23 to July 18, 1980.

The central focus of the 1980 seminar, as in the past, was the relationship between changing technology and American democratic traditions. Although the major thrust of the seminar's work was in the history of technology, we also tried to relate this historical investigation to issues of current relevance. This was particularly true during the second two weeks of the seminar. The directors are both historians in the School of Social Sciences at Georgia Tech who possess specialties in the history of technology.

The first two weeks of the seminar, which focused on the history of technology, brought to the participants a facet of American history which was totally new to most of them. But aside from our discussion of the development of new

machines and processes, the historical case studies we dealt with enabled us to investigate the extent to which technological innovations have helped to democratize America, effect fundamental changes in the American way of life, and at times bring about negative social and human consequences. Readings and discussion topics were designed to present both the positive and negative aspects of technology in our past. This intense historical inquiry of the first half of the seminar was deemed fundamental before embarking on the second half of the seminar which focused on the twentieth century and specific human problem areas that have appeared at the interface between technology and society. One major contemporary issue that served as an organizing theme in this latter part of the seminar was the issue of energy.

The fifteen professionals who attended the Georgia Tech program indicated in both their written evaluations (attached) and oral comments throughout the period, that the goals of the seminar were achieved. They learned a great deal about subjects that had previously been mysterious to them, found the structure and format of the meetings conducive to the free exchange of ideas, and discovered that they had been forced to think about a number of issues in new and provocative ways.

PROJECT ACTIVITIES:

The first segment of the grant period (January - February 1980) was devoted to planning the seminar and working with the NEH in the advertising and promotion of the 1980 program. Since this was the third time around for us, we were in a position to re-evaluate the 1978 and 1979 seminars, retaining what had seemed most successful and revising areas that were relatively weaker. We also had to do some thinking and planning around the fact that we would be dealing not only with journalists, but with a much more diverse group of working

professionals. The directors also had to undertake work on local arrangements for the June-July seminar. This included housing, food service, library, recreational, and social arrangements aimed at making our participants' stay in Atlanta a pleasant one. The months of March and April were largely consumed with the selection of participants and final planning of the seminar syllabus. Selection was completed during the first week in May and from that point to June 23, the directors were busy with final planning and direct communication with the participants.

There was a relatively large and very diverse pool of applicants this year of fifty-three individuals. The largest number of applicants were school administrators (15) followed by public administrators (12), lawyers (6), journalists (5), union leaders (5), medical doctors and health care professionals (4), engineers (3), businessmen (2), and librarians (1). In an effort to select the fifteen best individuals, but also to make the seminar as widely diverse in terms of occupation, region, personal background, and interest, the directors spent a great deal of time in not only reading the dossiers of individuals, but in "negotiating" with other seminar directors. Each applicant was allowed by NEH regulations to apply to three seminars. Sometimes, an individual who had listed us as his or her second choice, was deemed to be of higher priority than someone who had listed us first. Therefore, if one of these "premium" people had not been accepted to the first choice, we were free to make the person an offer after clearing with the other seminar director. This process helped us to come up with an excellent group of people, but it was very time consuming.

Assisting professors Kranzberg and Giebelhaus on the Georgia Tech selection committee were Ms. Michele Green, staff writer for the ATLANTA CONSTITUTION and a 1978 "graduate" of our seminar; Mr. Mitchell Shields, staff writer for

ATLANTA WEEKEND Magazine and a 1979 "graduate"; and Dr. Walter Bloom, an M.D. and director of the affirmative action program at Georgia Tech. Among the fifteen finalists selected were three school administrators, three engineers, two lawyers, two public administrators, two businessmen, one union leader, one journalist, and one librarian. Although we were very pleased with our final list (attached), the committee was disappointed in that we were not able to attract anyone from the medical field and that there were so few female applicants. Each of our four applicants from medicine accepted positions at other seminars, and we ended up with only two women in our final group of fifteen. One minority applicant, Mr. Wallace Carson, was a member of the seminar.

Prior to the beginning of the seminar in June there was a great deal of work involved with preparing materials for distribution to the participants, telephoning each individual personally to inform him or her of selection and to discuss any particular needs or problems, and finalizing the daily seminar schedule. The directors personally met with the participants upon their arrival at the Field dormitory on the Georgia Tech campus on Sunday June 22, 1980. Thirteen of the fifteen seminarians roomed in the dormitory and two of them stayed in furnished apartments near campus. These two individuals elected to bring their families with them for the month in Atlanta, and, unfortunately, the rather Spartan dorms here are not suitable for family living. The directors located these apartments with the help of the Georgia Tech Housing Office and the living arrangements worked out very well. In general, however, the directors support the NEH goal of encouraging the participants to live together. We have found from our three experiences with the Professions Seminar program that much is to be gained from the contact among the students outside of the formal seminar setting.

The seminar met for the first time on Monday, June 23, and subsequently, each morning, Monday through Friday, from 9:00 a.m. until 12:00 noon. The group took lunch together in a private dining room where morning discussions were carried forward in an informal atmosphere. Some afternoons we assembled together for field trips or special programs. Daily topics for discussion along with pertinent reading assignments were listed on the syllabus supplied to each participant (attached). Reading came from three assigned books which were purchased from the Georgia Tech bookstore and selected handouts prepared by the directors.

Each morning there was a presentation made by one of the directors which was followed by a coffee break. Following the short break there was directed discussion of the topic scheduled for that day focusing on the day's reading and the morning presentation. On a few occasions Georgia Tech colleagues visited the morning session either to make a short presentation based on their specialized interest and research, or to take part in our discussions. In addition to these somewhat more formal visits, we arranged to have other colleagues visit us at lunchtime during the course of the month-long program. The decision to invite these individuals was partially based on our evaluation of successful meetings in past seminars, but in some cases it reflected specific requests made by seminar members. On Monday July 14, the topic for discussion was the social implications of changes in communication and we were able to have the group speak with Dr. Jean-Hervé Lorenzi, a specialist in the human implications of computer science from the University of Paris. In town to meet with Dr. Kranzberg on other matters, we found that his presentation to the NEH seminar was of great interest and value.

Based on the very positive evaluations of the previous two seminars, we did formally arrange some afternoon activities. Among these were field trips to a



General Motors assembly plant in town, the solar energy experimental facilities at Georgia Tech, the Georgia Tech test nuclear reactor, and the student-operated textile mill located on campus in the School of Textile Engineering. The GM trip, held during the last week of the seminar was an excellent culminating activity as it allowed the participants to observe many of the things we had discussed about machinery and the workplace. In addition to a personally guided tour, we had the opportunity to meet for an in-depth question and answer session with the local plant management team. The tours of the solar energy facilities and the nuclear reactor during the third week coincided with our focus on energy questions. Here the students could see the technological side of the two main areas of renewable energy discussed widely today. As our colleagues in both places took advocacy positions, very stimulating discussions followed both visits. The trip to the textile facility, conducted early in the seminar, gave the students a unique opportunity to see an entire range of textile machinery in operation, thus giving a spark of life to our class discussions of the importance of textiles to American industrial and technological development.

On those afternoons when nothing was scheduled, the seminarians were free to work on their own in the library or in their rooms, to meet for informal small group discussions with the directors, and to engage in "bull sessions" among themselves. The feedback from the participants indicated that these latter sessions were of great value. We were also receptive to suggestions from the participants for special, unscheduled activities. For example, one of our participants, an engineer with New Jersey Power and Light, procured a video tape of the Illinois Power Company's reply to a CBS "60 Minutes" broadcast critical of nuclear power. The group viewed the tape together at the campus Instructional Resources Center one afternoon and stayed for a very interesting and rewarding discussion following.

The directors felt that it was important for the seminar to be flexible enough to allow for the special interests of the participants. Thus, we arranged special afternoon sessions or invited luncheon guests on an ad hoc basis during the month period. In addition to this, the syllabus was arranged so that the last week of the seminar would be devoted to topics selected by the group. The first two weeks, as mentioned above, were a structured examination of American technological history, and the third week topically focused on energy problems. We presented the group with a list of ten topics that the directors were prepared to cover for the last week and had the group select the five that they were most interested in. This gave us the desired flexibility without departing too far from the proscribed course of study that we had developed.

The Georgia Tech 1980 Professions Seminar, "Machine-Made America: Technology and Democratic Ideals," was very tightly organized. There is no question that when July 18 came around both directors as well as the fifteen participants were close to exhaustion. Yet, the group jelled magnificently and there was much enjoyment along the way. There was a relaxed atmosphere during the morning seminar meetings which allowed for a great deal of open discussion and participation from everyone. We were very pleased that everyone got along so well and that people from so many diverse professional backgrounds gained respect for each other. We did not always agree as a group, and sometimes discussion became quite heated. We did, however, learn to listen to each other and consider the other person's point of view.

There were several successful social activities which also contributed to the degree of cohesiveness among the group. A picnic at the associate director's home at the beginning of the first week helped to "break the ice" and help everyone to become acquainted. Many friendships were made among the participants and

small groups made weekend trips together, dined in the evening, or attended concerts and sporting events in the Atlanta area. We maintained a seminar tradition by holding an evening softball game with the ATLANTA CONSTITUTION squad and there was a very enjoyable farewell dinner held on the final evening of the seminar on July 17.

On July 18 the seminar came to an end and our fifteen participants departed the campus to return to their respective jobs. It is our hope that the dialogue begun during the month at Georgia Tech has not come to an end, but is only beginning. We have heard from several of the seminarians with letters and telephone calls to indicate this is so. Unlike the 1978 and 1979 seminars, however, when our graduate journalists would send us clippings of their work, we have not had as systematic an evaluation of the lasting impressions of the program.

RESULTS:

The short-term results of such a program are relatively easy to assess. A diverse group of people representing different professions, coming from different backgrounds and perspectives, and representing all areas of the country, came together for one month at Georgia Tech to learn and to hopefully bring back ideas and points of view which might give them a new outlook on their job. Based on the written evaluations of the program and the comments made to the directors by each and every participant, the goals of the seminar were reached. All felt that the program had fulfilled or exceeded their expectations and that it was a month well-spent. The directors can testify to the enthusiasm, commitment, and good will exhibited by all fifteen of our professionals. Although we had conducted similar programs in 1978 and 1979, there was a major difference this year. The

journalists in our previous seminars were bright, interested, and anxious to absorb as much knowledge about as many topics as possible. Sometimes this had a partially negative aspect--the desire to obtain material for stories rather than simply broadening horizons. The journalists also seemed to be rather more cynical as a group than the general population at large. The 1980 interprofessional group, on the other hand, struck us as being on the whole a more mature and reflective group. We feel that much of this stemmed from the inherent advantage of the interprofessional seminar. Participants were forced to consider many points of view and were constantly being challenged by others. At one point this past summer for example, our three engineers became the target of criticism because they seemed to symbolize, by the nature of their profession, everything that was wrong with rampant technology. Subsequent class discussion made it abundantly clear that 1) generalizations about any given profession are often misleading and 2) that others with what they may have thought was a more "humanist" bent were actually more sympathetic to economic growth and development than were the engineers! This diversity simply added another valuable dimension to the total experience offered by all of the Professions Seminars.

As mentioned above, we do not have the follow-up assessment that we had with the journalists--namely, reading stories that they have written or learning about programs that they have produced since the seminar. We do have the occasional letter or telephone call commenting that they do somehow feel "different" about themselves and their work as a result of the seminar experience, but this is for the most part very impressionistic data. Several participants have specifically praised the value of an historical perspective that was gained from the seminar. We feel that in very general terms this is one of the benefits that history, as a humanistic study can offer. Others spoke to us about the opportunity that the

seminar provided to challenge many of their preconceptions about technology. One engineer, for example, felt that he had been forced to examine the social implications of his work more, while a school administrator who was also active in local politics confessed that she had come to the seminar with a biased view against technology, a view that was partially altered by the experience of the seminar. The somewhat tangible benefits such as new friendships, a month's intellectual stimulation, and the acquisition of more knowledge about American technology can be measured to a degree. The more intangible results--how a given person's life and attitudes toward his fellow man may have changed--are more difficult to assess. We feel that the seminar provided an environment in which these men and women, leaders in their respective communities, could grow as individuals. There was clearly great opportunity for them to expand their horizons. We can only hope that it has done so for a majority of our "students."

The directors also feel that the 1980 seminar had a very positive effect on Georgia Tech and we were pleased to be given the opportunity to serve as a host institution. Much of Dr. Kranzberg's work over the past twenty years has been in communicating his interest in technology to a wider audience. He has also been interested in communicating a humanistic perspective to his engineering colleagues. The activities of the seminar, the interaction of the group with our engineering colleagues, and the very presence of the group on the campus were all helpful in furthering attempts by the School of Social Sciences to foster study of technology and society. The seminar was thus a two-way street. We hope that our seminar participants truly left with something of value from their experience here; we know that their participation left our campus the better for it.

We might also add a few comments of a personal nature. Both the director and associate director have tried to be communicators to the audience beyond

academia. The seminar presented us both with a unique opportunity for three summers to interact with working professionals from many fields. Our journalists in 1978 and 1979 were wonderful; our interprofessionals of 1980 were even better. The National Endowment for the Humanities has encouraged us in our work through the sponsorship of this and similar programs and we sincerely hope that they may continue. We have made forty-five new friends as well. We frequently hear from the 1978 and 1979 participants and we fully expect to maintain contact with this latest group for years to come. It was a very rewarding month for us and we anticipate our connections with our seminarians to remain a valuable part of our lives.

EVALUATION AND RECOMMENDATIONS FOR CHANGE:

We feel that the 1980 Georgia Tech seminar was a very great success. Having conducted similar programs in 1978 and 1979 we were in a position to "fine tune" the program, eliminating things that had not succeeded and adding others that arose from our perceptions of student needs. The very favorable experience of having an interprofessional group rather than journalists alone was a very positive characteristic of this particular program. We had changed many of our readings from previous years and, based on the interest from the other seminars, devoted one entire week to energy technology and its effect of society. We feel that this judgment was a correct one and would do so again if a similar program were offered. The field trips and visits made by outside experts were all received very well and added much to the overall program.

Efforts were made also to incorporate the experience from past seminars into the daily organization of the 1980 program. We were aware, for example, of some past criticism that discussions sometimes became too open-ended and there was a continuous need for direction. The format of planned presentations and discussions

on a detailed syllabus was retained as it enabled us to accomplish a great deal within the relatively short time period. The decision to lunch together was a good one and we found this daily occurrence to be a very helpful device to develop the cohesiveness of the group. In short, after having conducted the seminar for a third time, we feel that there is very little that has to be changed if we again offer a program. Our effort to combine a rigorous and planned educational program along with an environment conducive to open and free discussion was largely a success.

One point of contention remained consistent with both the 1978 and 1979 seminars--the dormitory living arrangements. There are always problems when adult professionals are forced to live in austere college dorms, but Georgia Tech's older facilities do present some special problems. The success of a seminar program like this depends to a large degree on how well the chemistry of the group works, and unhappiness over something as mundane, yet as important as housing, can work against the harmony of the group. The Georgia Tech administration is aware of our housing problems and is currently undertaking a major program of dormitory renovation.

Other campus facilities were much more appreciated. The Student Athletic Complex containing a wide variety of athletic and recreational activities was made available to our people, and the library, food service, and continuing education departments were most helpful. When we called upon colleagues at other units of the campus to help us in some way or another they were very eager to cooperate. Among those whom were especially helpful were the Georgia Tech Engineering Experiment Station, the Schools of Nuclear and Textile Engineering, the staff of the nuclear reactor facility, the Student Center, and the Instructional Resources Center.

All in all, we think that each successive Georgia Tech summer seminar has improved upon its predecessors. There is very little that we would change if offered the opportunity to hold another Professions program at some future date.

STATUS:

The departure of the fifteen participants in the 1980 Georgia Tech Professions seminar for all practical purposes brought the program to a conclusion. We hope that our 1980 "graduates" will have taken with them a desire to continue their interest in technology and that the seminar has opened doors for them that will continue to interest them the rest of their lives. Similarly, there are no specific publication or research plans that the directors see coming from the 1980 seminar experience. Both will, however, continue their efforts in teaching, research, editing, and communicating about technology and American society. In this sense, the 1980 summer seminar is part of the career activity of both the director and associate director.

Although the directors were interested in conducting the seminar for a fourth year, we were informed by the Professions Seminar office at the NEH that it was unlikely that one institution would be funded for more than a third year. At the suggestion of the NEH office we submitted a new proposal for an interprofessional seminar under the title "Energy, Technology, and Values" on the understanding that such a new effort would have a better chance for funding. Unfortunately, our proposal was not selected for the 1981 Professions Seminar program. If the occasion does arise that we conduct a seminar at some future date, we feel that our experiences in the past will aid us in putting together a worthwhile program. In the meantime, we plan to keep in touch with the participants in our



NEH seminars as part of our continuing commitment to the National Endowment for the Humanities. Experience from the 1978 and 1979 seminars indicates that we will be called upon for a number of requests for information or to just talk over things with individuals. We look forward to this task with enthusiasm.

ANTICIPATED DISSEMINATION OF RESULTS:

Since Grant # FP-10018-80-0354 funded a one-month Professions seminar and was not a research grant, the directors have no plans to publish any results from it.

ATTACHMENTS:

- A. List of 1980 Seminar Participants
- B. 1980 Syllabus
- C. Participants' Written Evaluations

Members of Dr. Kranzberg's and Dr. Giebelhaus's 1980 Summer Seminar

"Technology and the Democratization of American Society"

1. Mr. Jay J. Becker  
Deputy District Attorney  
Los Angeles County  
Los Angeles, CA
2. Mr. Wallace B. Carson  
Planning Consultant  
Self-employed  
East St. Louis, IL
3. Mr. C. Bryce Draper  
School Superintendent  
Cache County School District  
Logan, UT
4. Ms. Joyce Y. Hanrahan  
School Principal  
York Board of Education  
York, ME
5. Mr. Ted A. Jankowski  
Radio Director/Producer  
WILL-AM-FM  
Urbana, IL
6. Ms. Anna M. Penrose  
Librarian  
Campbell Library  
St. Joseph's College  
Philadelphia, PA
7. Mr. Carl Roman  
Roman Resources and Development Corp.  
Allentown, PA
8. Mr. Ralph A. Siciliano  
Engineer  
Jersey Central Power and Light  
Asbury Park, NJ
9. Mr. John Harrigan  
Avionics Development Engineer  
U. S. Air Force  
Shalimar, FL
10. Ms. Kathryn J. Tobias  
Staff Analyst, Governor's Office  
of Planning and Research  
Sacramento, CA
11. Mr. Jerry J. Wall  
Supervisory Attorney  
U. S. Department of Health  
and Human Services  
Atlanta, GA
12. Mr. Frank J. Waters  
Director, Data Processing  
City of Norwalk  
Norwalk, CT
13. Mr. Gerald A. Webb  
Director of Vocational Education  
Edwardsville Community Schools  
Edwardsville, IL
14. Mr. Morton Weinberg  
Marketing Manager  
Motorola Corporation  
Ft. Lauderdale, FL
15. Mr. Kenneth W. Yunger  
Union Secretary-Treasurer  
Topeka Mailers Union  
Topeka, KS

## SYLLABUS

NEH Summer Seminar for Professionals  
"Technology and the Democratization of American Society"  
Georgia Institute of Technology  
June 23-July 18, 1980  
Student Center Room 319

Dr. Melvin Kranzberg  
Director  
216 D. M. Smith Bldg.  
Telephone: 894-3198 (office)  
256-1943 (home)

Dr. August Giebelhaus  
Associate Director  
202 D. M. Smith Bldg.  
Telephone: 894-3195 (office)  
378-2746 (home)

During the first two weeks of the seminar we will examine the role that technology has played through American history. Although part of this inquiry will involve a look into the development of new machines and processes, our discussions will primarily explore the extent to which technological innovations have helped to democratize America, effect fundamental changes in American life, and at times bring about negative social and human consequences. Most of the third week will focus on topics related to energy, a major issue facing the United States today. The final week's schedule is open so that we can concentrate on topics selected by the group from a list provided. Once we have decided on the themes to be addressed during this last week, we will distribute a syllabus, including reading assignments, for that final week.

The first part of each day's meeting will be devoted to an informal lecture on part of the topic scheduled for that day. After a short coffee break, the seminar will reconvene for a discussion of the ideas presented in the lecture and contained in the assigned reading for that day. Informal discussion will be continued during lunch hour in Room 359.

### Required Reading (on sale at the Georgia Tech Bookstore):

John G. Burke and Marshall C. Eakin (ed.), Technology and Change.  
Melvin Kranzberg and William H. Davenport (eds.), Technology and Culture:  
An Anthology  
Nathan Rosenberg, Technology and American Economic Growth

DAILY SCHEDULE

Monday, June 23

Topic: "Technology and the Democratization of American Society"

Reading: Ferguson, "Technology as Knowledge;" Ferkiss, "Technology and Industrial Man;" Elgin and Mitchell, "Voluntary Simplicity (3)" (photocopies).

Tuesday, June 24

Topic: "The Transit of Technology, 1607-1800"

Reading: Rosenberg, Ch. I, "Technology in Historical Perspective;" Ch. II, "The Economic Matrix;" Wilkinson, "Brandywine Borrowings from European Technology;" Heilbroner, "Do Machines Make History;" Mumford, "Authoritarian and Democratic Techniques;" Rae, "The Know-How Tradition in American History" (Kranzberg and Davenport); Ashton, "The Industrial Revolution" (Burke and Eakin)

Wednesday, June 25

Topic: "The Beginnings of American Technology, 1800-1860"

Reading: Rosenberg, Ch. III, "The 19th Century: America as Borrower;" Burke, "Bursting Boilers and the Federal Power" (Kranzberg and Davenport); Meier, "Technology and Democracy, 1800-1860;" Fairburn, "The Invention of the Riveting Machine;" Schmookler, "Economic Sources of Inventive Activity;" Ferguson, "Nonverbal Thought in Technology" (Burke and Eakin); Woodbury, "The Legend of Eli Whitney and Interchangeable Parts" (Kranzberg and Davenport).

Thursday, June 26

Topic: "The Formation of Industrial Society, 1870-1900"

Reading: Rosenberg, Ch. IV, "The 19th Century: America as Initiator;" Condit, "Sullivan's Skyscrapers as the Expression of 19th Century Technology;" Rasmussen, "Advances in American Agriculture: The Mechanical Tomato Harvester as a Case Study;" Wik, "Henry Ford's Science and Technology, for Rural America" (Kranzberg and Davenport).

Friday, June 27

Topic: "The Development of Industrial Leadership, 1900-1940"

Reading: Rosenberg, Ch. V, "The Twentieth Century;" Giedion, "Engineering the Household;" Cowan, "The 'Industrial Revolution' in the Home;"

Veblen, "The Role of the Engineers;" Guest, "Scientific Management and the Assembly Line" (Burke and Eakin).

Monday, June 30

Topic: "Innovative Technology in Contemporary America"

Reading: Rosenberg, Ch. VI, "Technology and Social Options;" Price, "Little Science, Big Science;" Drucker, "Applied Science and Technology;" Weiner, "How the Transistor Emerged;" Ravetz, "Social Problems of Industrialized Science;" Nader, "Unsafe at any Speed;" Marlowe, "Public Interest--First Priority in Engineering Design;" Wik, "The Government and Agricultural Technology;" Pursell, "The Government and Industrial Technology" (Burke and Eakin).

Tuesday, July 1

Topic: "Slavery, Technology, and the Civil War"

Guest Speaker: Dr. Robert C. McMath, Jr.

Reading: "A Humanistic Perspective" (photocopy); Daniels, "Technological Change and Social Change" (Burke and Eakin)

Afternoon Program: Visit to Textile Engineering "Tex-Tech" project.

Wednesday, July 2

Topic: "Changes in Communications Technology"

Guest Speaker: Dr. James E. Brittain

Reading: To be announced

Thursday, July 3

Topic: "The Emergence of Large-Scale Business Institutions"

Reading: Chandler, "The Beginning of 'Big Business' in American Industry" (photocopy)

Friday, July 4

HOLIDAY -- NO CLASS

Monday, July 7

Topic: "Energy Crises: Past and Present"

Reading: Nef, "An Early Energy Crisis and Its Consequences" (photocopy).

Tuesday, July 8

Topic: "Nuclear Energy: Promises and Problems"

Reading: Einstein, "Letter to President Roosevelt;" Atomic Energy Commission, "Report on the 'Super';" Sakharov, "Nuclear Weapons Development" (Burke and Eakin); Lanquette, "Nuclear Power--An Uncertain Future Grows Dimmer Still" (photocopy).

Guest Speaker: Dr. Alfred Schneider

Afternoon Program: Visit to Georgia Tech Nuclear Reactor

Wednesday, July 9

Topic: "Solar Energy: Past, Present and Future"

Reading: Lovins, "Energy Strategy: The Road Not Taken?" (photocopy)

Guest Speaker: Dr. Tom Brown

Thursday, July 10

Topic: "Alternative Technology"

Guest Speaker: Dr. Stanley Carpenter

Reading: Glacken, "Nature and Culture in Western Thought;" Rosenberg, "Technology and Resource Endowment," Hibbard, "Mineral Resources: Challenge on Threat?;" Gimpel, "Environmental Pollution in the Middle Ages;" Dubos, "The New Environmental Attitude;" Hostettler, "Amish Society" (Burke and Eakin).

Friday, July 11

Topic: "Synthetic and Alcohol Fuels"

Reading: Krammer, "Fueling the Third Reich" (photocopy); Giebelhaus, "Farming for Fuel" (photocopy).

Monday, July 14 - Friday, July 18

We will select topics by class vote from the following list:

1. Social Implications of Changes in Communication
2. Technological Interaction with Education and the Arts
3. The Interaction of Science and Technology
4. Human Values and Modern Technology
5. Technology and the Environment
6. Innovation and Productivity
7. Technology and the Limits to Growth
8. The Role of Technology Assessment
9. American Technology and the Third World
10. Technology Policy

Monday, July 14

Topic: Social Implications of Changes in Communication"

Reading: Mumford, "The All-Seeing Eye;" Simon, "What Computers Mean for Men and Society;" Ramo, "The Systems Approach;" Roszak, "The Citadel of Expertise;" Ferkiss, "Bureaucracy;" White, "Dynamo and Virgin Reconsidered" (Burke and Eakin)

Guest Speaker: Dr. Jean-Hervé Lorenzi, University of Paris

Tuesday, July 15

Topic: "Technology and the Environment"

Reading: Ayres, "The Industrial Way of Life;" Lilienthal, "Democracy at the Grass Roots;" Morgan, "The Garrison Dam Disaster" (Burke and Eakin)

Guest Speaker: Dr. Fred Rossini

Wednesday, July 16

Topic: "American Technology and the Third World"

Reading: Davis, "The Migration of Human Populations;" Jensen, "The Food-People Problem;" Zaheer, "India's Need for Advanced Science and Technology;" Clark, "Intermediate Technology" (Burke and Eakin); Ritchie-Calder, "Technology in Focus -- The Emerging Nations" (Kranzberg and Davenport)

Guest Speakers: Mr. J.E. Jacobson, Dr. Jay Weinstein

Afternoon Program: Visit to General Motors Assembly Plant, Doraville, GA

Evening Program: Softball game versus Atlanta Constitution/Weekend Magazine

Thursday, July 17

Topic: "Human Values and Modern Technology"

Reading: Commoner, "Are we Really in Control?;" Mumford, "The Technique of Total Control;" Ellul, "The Technological Order;" Florman, "In Praise of Technology" (Burke and Eakin); Mumford, "Authoritarian and Democratic Technics;" Huxley, "Achieving Perspectives on the Technological Order;" Buchanan, "Technology as a System of Exploitation" (Kranzberg and Davenport)

Guest Speaker: Dr. Daryl Chubin ("Values in Scientific Controversies")

Friday, July 18

Topic: "Technology is the Answer, but That's Not the Question"

Reading: Wallace, "Freedom and Direction;" Keniston, "Technology and Human Nature;" Drucker, "The Futility and Dangers of Technology Assessment;" Winner, "Technology as Legislation;" Nelkin, "The Technological Imperative versus Public Interests;" Brooks, "Technology Assessment in Retrospect" (Burke and Eakin)



## SEMINAR EVALUATION

### TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The seminar met my expectations and the descriptive material received reflected what actually happened.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

Yes - It should be continued. It gave me a greater awareness of the diverse opinions regarding the solution to the problems facing society today.

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

The style and content was effective in achieving the goal of the seminar. The topics were well presented and enabled the participants to express their views.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

I felt their helpfulness and attitude toward the seminar participants was excellent.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

Although the quantity of the reading material was substantial - on the most part it was of good quality and timely. Some minor changes in assignment could be made. Specifically, the assignments for the last week; i.e., the readings on technological assessment and technological monitoring should have been assigned earlier.

6. What changes should be made to improve the reading materials if the seminar is offered again?

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

Most of the guest speakers were excellent, and I valued the opportunity to hear the different views and philosophies. The discussions at lunch were excellent, but I found that there were too many side conversations going on. Perhaps in the future, after lunch is completed, some time could be devoted to a more formalized presentation in the form of questions & answers.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

I enjoyed the field trips and found them very informative. The only problem I found was hearing the guides explain what was going on.

9. How much did you get from the seminar? How would you rate its overall value to you? The seminar provided me with an awareness of the impact technology has had on our lives. The fact that there could be many solutions to solve the problems facing society today. How to deal with the different opinions.

10. Would you recommend this seminar to a colleague?

Yes.

11. Additional Comments (use back if necessary)

## SEMINAR EVALUATION

### TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The seminar surpassed any expectations I had prior to attending. The syllabus prepared me for the subject matter we covered. The directors delivered what the syllabus indicated they would.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

Yes, on both counts. I was introduced to many new subjects, concepts and attitudes during this meeting. Familiarity abounded as well throughout the subject matter presented providing a feeling of confidence toward both the directors and their field of study.

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

Both directors' presentations can only be described as lucid. Both are high power lecturers who not only state their positions clearly but remain unbiased when the views of others are considered.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

The directors handled even the hard cases with poise. They seemed always ready and willing to present the material in spite of the Monday morning blues, etc. I looked forward to all the presentations knowing that each director offered something new and valuable each day.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

I found the Rosenberg book difficult to pick up. I had no problems with the reading in the other two books. I especially enjoyed the strictly historical readings and less enjoyed the philosophically leaning material. Readings tied closely with the presentations and covered all facets of the subjects studied.

6. What changes should be made to improve the reading materials if the seminar is offered again?

I would leave the reading as is in spite of my feeling of difficulty with Rosenberg. Those lacking my economics mental block would probably handle this material with little difficulty. It made me, and I think would make others, read "harder" and find the other material all the easier and clearer for it.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

I can only say that all the guest speakers were outstanding and well chosen. Dr. Schneider was my absolute favorite probably because of his confidence in nuclear energy and his explanation of the process and its benefits.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

OUTSTANDING!!! Don't change this a bit.

9. How much did you get from the seminar? How would you rate its overall value to you?

After the rigors of mathematics and the logics of computers, history is my favorite subject. Much of the historical data given in the seminar was new with respect to the point of view we were given of it. I view the study of history as an aid in preparing for the future by answering present questions and solving current problems based on what has happened in the past. This is how I intend to use much of the information I received in the seminar.

10. Would you recommend this seminar to a colleague?  
ABSOLUTEMENT!!!

11. Additional Comments (use back if necessary)

## SEMINAR EVALUATION

### TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The seminar content met my expectations almost exactly although I should say that my expectations were not fully developed until sometime during the first week of the seminar. I think that the implications of technology on society are only now beginning to register in the mind of the man on the street.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

This seminar program was very much worthwhile and should be continued or even expanded. People must become aware of the kinds of problems we studied.

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

Although the directors have dissimilar styles of teaching, they are both excellent presentors.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

I don't know how the helpfulness and general attitude of the seminar directors could have been better. Preparation for this seminar was done in depth and in every other aspect of the program great attention was given to detail.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

Since the reading materials were authored by a number of different people, there was a considerable variation in their styles of writing. Some were better than others. Overall, I was very pleased with having the reading material presented in this type of short essay because it enabled me to get a capsule view of the authors thinking very quickly. The large number of authors provided a wide latitude of thought.

6. What changes should be made to improve the reading materials if the seminar is offered again?

I really don't know how you could improve the reading materials unless those of a supplementary nature might be displayed in the seminar classroom.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

The guest speakers were all good and were interspersed often enough to keep new ideas flowing. I particularly enjoyed the talk regarding nuclear reactors.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

The field trips were appropriate and also well done. I would not delete any of them but would add if possible to the number so that as many as two per week might be experienced.

9. How much did you get from the seminar? How would you rate its overall value to you?

The overall value of the seminar for me is a rearrangement of information that I already had plus enough new to start my thinking processes all over again. I think I am much more sensitive to the impact of technology on society than before.

10. Would you recommend this seminar to a colleague?

Positively.

11. Additional Comments (use back if necessary)

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1.) To what extent did the seminar meet your expectations? (2) Did the descriptive material that you received at the time of application accurately reflect what actually happened?

- (1) *Met and exceeded my expectations*  
(2) *Yes*

2.) Do you feel that the NEH Professions Seminar Program is worthwhile? (2) Should this and similar programs be continued?

- (1) *Yes* (2) *Definitely*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

*Style and presentation was clear, well-presented and highly motivating to the listener. Enthusiasm of presentations added greatly to the credibility of the directors and increased group participation in discussion.*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

- (1) *Extremely helpful, even in personal matters and in matters beyond their control (telephone service, etc.)*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

*Positive in all areas. Regretted there was not more time to discuss some of the more provocative articles.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

None. (See questions 5 as related to this)

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

All did a fine job. Probably could use more; perhaps introducing them earlier if possible.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

Enjoyed them all. Lowest interest was the textiles.

9. How much did you get from the seminar? How would you rate its overall value to you?

(1) Very much. (2) It was excellent, particularly since I am involved in a professional engineering project directly related to the seminar topic.

10. Would you recommend this seminar to a colleague?

Yes

11. Additional Comments (use back if necessary)

None. It was very well done. Thanks!



SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

80% - I thought technology assessment would prove a more substantial discipline; expected more challenge to participants

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

Yes

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

Quite clear - at the expense of Depth

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

Very helpful - A BIT CONDENSING (or DEFENSIVE) IN DEALING WITH CLASS INTERACTION

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

FOR PARTICIPANTS, UNUSED TO ACADEMIC ENVIRONMENT, PROBABLY NOT WELL-ENOUGH CONNECTED TO CLASSWORK - SOME QUITE RELEVANT, OTHERS LESS SO - OVERALL QUITE USEFUL

6. What changes should be made to improve the reading materials if the seminar is offered again?

Better, more current technology critiques,  
More current stuff on energy

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

A DISTRACTION - INTERESTING AS INDIVIDUALS, BUT NOT  
CONSISTENT w/ ANY general emphasis or focus of  
course of the MATH, BRITAIN only tangential - Fun to  
MEET them - SCHNEIDER AN INTERESTING exhibit - DIDN'T  
ENCOURAGE involvement

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

GOOD - I'D LIKE TO LEARN better how the machines /  
ASSEMBLY LINE WORK

9. How much did you get from the seminar? How would you rate its overall value to you?

CONSIDERABLE BROADENING - UNDERSTANDING OF ANALYTIC  
FRAMEWORK OF HISTORIANS OF TECHNOLOGY - APPRECIATION  
OF VARIOUS POINTS OF VIEW OF THOSE I WORK WITH IN  
LARGER SOCIETY

10. Would you recommend this seminar to a colleague?

Yes

11. Additional Comments (use back if necessary)

Biggest flaws = failure to capitalize  
on groups being together for a month -  
study of specific issues by subgroups  
to be plan, involving us in determining  
readings, etc would have helped -  
course showed no understanding of  
more in tech no focus on ...

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened? *Met expectations, accurately described*

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued? *Yes. Interchange of ideas by people of diverse backgrounds valuable in terms of obtaining overview*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they? *Clear and well presented*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program? *Their dedication and enthusiasm was contagious, infecting the class with a desire to understand the problems and search for solutions*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned. *Adequate. Three texts give somewhat diverse views.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

*Don't mix, with the duplicated articles supplementing text. Encourage class bringing in timely current articles of interest.*

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

*Excellent. Too short a time for some of them to enable exploration in depth of some of the subjects, ideas.*

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

*invaluable. Possibly sooner, in terms of Tax tech to better understand structure of machinery.*

9. How much did you get from the seminar? How would you rate its overall value to you?

*Better general overview of Techn. issues.*

10. Would you recommend this seminar to a colleague?

*Yes.*

11. Additional Comments (use back if necessary)

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

*I wanted a little bit more on the intellectual side of the subject - it turned out to be more historical orientation than I thought. So again, I would have spent the first week on history & then moved to the second part of the title of the seminar - the democratization of society.*

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

*Extremely worthwhile program - chance in professions to take a step away from their jobs & address their profession in issues relevant & not relevant to their specific professional area.*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

*I felt they were appropriate, clear & useful.*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

*Directors very enthusiastic & helpful to seminar - which accounts for same mood in participants.*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

*Quantity - of the books in used areas, should be increased more in the lectures - otherwise, I don't find that stimulating. Quantity - on the history & technology, good bibliography. Quality - the articles in this book are first class - it is a good survey of a good set of articles chosen - but be better.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

More philosophical reading - to have what philosophers were thinking people at different times in stages of technological development.  
Too much on history of nuclear

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

Guest speakers <sup>were</sup> very good - I'd like even more.  
Nathan really stimulated my thinking about history.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

I'd like more field trips to Jagger's Station, maybe even one to Tottelwood, at its emphasis on future technology for urban living.

9. How much did you get from the seminar? How would you rate its overall value to you?

Personally, I learned a lot about myself. I learned a little more about machines than I could about and a little more about the philosophical side of technology & its impact on society than I wanted.

10. Would you recommend this seminar to a colleague?

I would be recommending it to several people.

11. Additional Comments (use back if necessary)

## SEMINAR EVALUATION

### TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened? *The seminar fully met my expectations. The material gave quite a precise description of the overall plan of how technology has democratized society, and society is moving to democratize technology, and of scheduling of meetings, lunch, etc.*

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued? *Very worthwhile. There is no way in which the diversity of participants and the expertise of the directors of the various divisions could be assembled on a local level.*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

*The presentations were structured but flexible and contained a good mix of facts, philosophy, issues.*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

*The directors were unfailingly patient and tactful toward a group with diverse backgrounds, and I think that they communicated their enthusiasm.*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

*They seemed to cover all the angles and to be written by knowledgeable people.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

Prof Rosenberg, I would like to see more primary material, such as Einstein's letter, included, & a selection of literature such as Arnold, Ruskin, some of Frankenstein & even Prometheus Bound.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

Good way to get experts in the various fields and get various viewpoints.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

The field trips were some of the most valuable parts of the seminar. I would like to see at least as many as this year included in the future. I would suggest a run-through of what will be seen before entering the site because explanations were difficult to hear over the noise.

9. How much did you get from the seminar? How would you rate its overall value to you?

A very valuable overview and a heightened awareness of contemporary issues with stimulating discussion and opinions.

10. Would you recommend this seminar to a colleague?

Yes indeed

11. Additional Comments (use back if necessary)



SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

Yes

"

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

Yes

"

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

Straight forward, lucid, responsive to questions, intelligent.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

Showed much more patience than expected with a number of us.  
Directors kept interest directed generally.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

Appropriate

6. What changes should be made to improve the reading materials if the seminar is offered again?

Decrease The number toward  
The end.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

About right, gave a good range  
Well balanced - Stan Carpenter was primus inter pares

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

Valuable, all kept. Add more if possible

9. How much did you get from the seminar? How would you rate its overall value to you?

Personally I felt it was worthwhile to me because of an internal agenda & because it answered ~~my~~ some unique questions of mine.

10. Would you recommend this seminar to a colleague? I would if there were a suitable colleague!!

11. Additional Comments (use back if necessary)

There is a place where people are not addressing each other for verifying that they understand what they are responding to. I recommend the Carl Rogers dialogue model be used, at times, to insure the similarity of

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

*I found the seminar interesting and intellectually stimulating. It exceeded my expectation. Descriptive material was good.*

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

*The seminar does wake one up and make one aware of world activities in the Humanities.*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

*The relaxed informal style of the directors added greatly to the success of the program. The contents covered the different subject areas thoroughly. Presentations were clear and I rate them excellent.*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

*Directors related very closely to the group and made it a close knit almost family group. Directors was very interested in welfare of the group. In this area they can be considered outstanding compared to other groups seminars I have attended.*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

*It was not difficult, quality and quantity about even. Usefulness, provided good background material.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

An increase in social science and a little religion could be worked in

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

Very valuable part of the whole program. Questions about right. Dr. Chubb and Dr. Weuster

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

All good, changes only if something special develops

9. How much did you get from the seminar? How would you rate its overall value to you?

It reinforced my thinking well and will help my future career planning. It will be of value in directing my efforts in areas I have failed to notice before.

10. Would you recommend this seminar to a colleague?

I not certainly would recommend it highly.

11. Additional Comments (use back if necessary)

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened? *The material which I received did accurately reflect what happened. My expectations were met, although I would've welcomed another day or two to cover topics of my own interest.*

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued? *Absolutely*

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they? *Fine*

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

*Extremely helpful, positive, each contributed to my interest and enthusiasm.*

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

*I had a little trouble "getting into" the Rosenberg book, but once I did I liked it. The <sup>other</sup> readings were interesting. I felt that some of the articles were a little old. So much seems to be happening so fast, some late 70's books would've (might have) been better.*

6. What changes should be made to improve the reading materials if the seminar is offered again?

see # 5

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

The guest speakers were all excellent, even our lunch guests (particularly the Shaker-Mormon-Oreida guy). Because of my own bias, I'd rate Carpenter, Joe Smith, Weinstein & Chubyn very high.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

None should be dropped. Only disappointment: broken machinery at Tech Mill.

9. How much did you get from the seminar? How would you rate its overall value to you?

It's overall value is hard to rate until I have a chance to do some thinking. I got a lot from it and expect it to have a real impact on my future planning, work, etc.

10. Would you recommend this seminar to a colleague?

Yes

11. Additional Comments (use back if necessary)

I'd like to thank both of you for a fine four weeks. I expect to put something down on paper about the experience. I'll send you a copy!

Joyce -

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The Seminar exceeded my expectations from the material. I had not taken into account the amount of input from the participants.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

yes yes yes

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

style is animated enough to hold my attention. it is easy to follow logical flow of presentation.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

The director's seemed genuinely interested in the participants, helpful in locating additional information & readings.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

The Reading was interesting, sometimes over-simple. there was little discussion of actual Reading in class, and many of the other copies added by members of the class was enlightening. I appreciate the free copies.

6. What changes should be made to improve the reading materials if the seminar is offered again?

Some of the "informal" sessions (feedback) could be used to discuss issues in Reading.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

guest speakers were valuable "Experts" that helped me see why so many people can have "The only Right" solution

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

Am excellent (except for the P.R. room) would have liked to visit "working" textile mill.

9. How much did you get from the seminar? How would you rate its overall value to you?

~~too~~ I got too much to list here. I rate this excellent

10. Would you recommend this seminar to a colleague?

yes

11. Additional Comments (use back if necessary)



SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The seminar more than met my expectations. The descriptions were excellent - concise, clear, accurate.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

It is enough to say that this program has been the most stimulating educational event in the past ten years of my career.

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

The professional expertise and the personal concerns of the directors are the very qualities that caused the seminars to exceed expectations + master presentations!

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

This formidable duo worked on excellent team - They complement each other in strengths - Both were brilliant, well prepared, made timely use of humour and showed many acts of personal interest in participants.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

The wide variety of authors brought ~~most~~ many styles and points of view. We had to read a great deal of thought provoking material - most if not all articles were timely and very readable. Roundly least interesting - might assign a

6. What changes should be made to improve the reading materials if the seminar is offered again?

I'm not sure. The more concise is shorter articles, were more suited to my interests and lack of experience than the more ~~lengthy~~ complex, lengthy ones of great technical depth. See 5. (add science fiction - drop Rosenberg book.)

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

There may have been too many guest speakers - however, this view may be due to the fact that Krumpal is such a great presenter and the wish that Giebelhouse had had more opportunity for personal presentation. The youth of the guests inspired all were good - the fellow from the Nuclear Reactor impressed most.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

all the trips were excellent - perhaps a couple of others should be added. (airport? omni or practice place Hotel)  
(note -

9. How much did you get from the seminar? How would you rate its overall value to you?

My awareness of technological influences and potentials is greatly heightened. I will and now do take note of related articles in newspapers and journals. I may communicate with elected officials more on related issues.

10. Would you recommend this seminar to a colleague?

absolutely!

11. Additional Comments (use back if necessary)

I'm grateful for this growth experience, Condense to 3 weeks by adding a couple of night sessions.  
a magnificent involvement! Thank you very much!

SEMINAR EVALUATION

TECHNOLOGY AND THE DEMOCRATIZATION OF AMERICAN SOCIETY

1. To what extent did the seminar meet your expectations? Did the descriptive material that you received at the time of application accurately reflect what actually happened?

The seminar went well beyond my expectations.

2. Do you feel that the NEH Professions Seminar Program is worthwhile? Should this and similar programs be continued?

It was definitely worthwhile and every effort should be made to continue it for others.

3. Comment on the style and content of the directors' presentations. How clear and well-presented were they?

I got the message(s)! Everybody.

4. Comment on the directors' helpfulness and general attitude toward the seminar participants. How did the directors contribute to or detract from your interest and enthusiasm for the program?

The directors' enthusiasm was positively contagious.

5. Comment on the quality, quantity, level of difficulty, and usefulness of the reading materials assigned.

Excellent, without a doubt.

6. What changes should be made to improve the reading materials if the seminar is offered again?

Keep updating materials where possible.

7. Comment on the value of the guest speakers in the program. Were there too many? Too few? Were there any who particularly stand out in your mind?

Every guest speaker was commendable, well  
well prepared. The variety was excellent.

8. Comment on the value of the field trips. Which should be included in a future seminar? Which if any should be dropped?

All field trips should be included and more if  
possible.

9. How much did you get from the seminar? How would you rate its overall value to you?

NEH Pamphlet. There could have been more information  
related to course descriptions.

10. Would you recommend this seminar to a colleague?

Certainly.

11. Additional Comments (use back if necessary)

Good job and keep up the good work.